

Duffy's Department.

For the "Spirit."
 ENRATA.—In S. A. G.'s solution to D's problem of the 11th of June, read 4 223
 inside the width of the ditch.

S. A. G.
 For the "Spirit."
 Solution by Analysis to S's Problem
 No. 7, of the 9th inst.

In the first place, the wine vessel is filled from the water, so that it will consist of 3 wine and 1 water; and there will remain in the water vessel 3 water.

The water vessel is then filled from the wine vessel, by drawing from it 3; that is 3 of wine—4-9ths, and 3 of 3—2-9ths of water; so that the water vessel consists of 5-9ths of water and 4-9ths of wine, and there remains in the wine vessel 2-9ths of wine and 1-9th of water.

We next fill the wine vessel, and find that it will contain 14-27ths of wine, and 13-27ths of water; and there will remain in the water vessel 5-27ths of water, and 4-27ths of wine.

These successive operations will be clearly comprehended from the following table:

WATER.	WINE.
1st time 1-3rd	1st time 1-3rd
2nd time 2-9th	2nd time 2-9th
3rd time 3-27th	3rd time 3-27th
4th time 4-81th	4th time 4-81th
5th time 5-243th	5th time 5-243th
6th time 6-729th	6th time 6-729th
7th time 7-2187th	7th time 7-2187th
8th time 8-6561th	8th time 8-6561th
9th time 9-19683th	9th time 9-19683th
10th time 10-59049th	10th time 10-59049th
11th time 11-177147th	11th time 11-177147th
12th time 12-531441th	12th time 12-531441th
13th time 13-1594323th	13th time 13-1594323th
14th time 14-4782969th	14th time 14-4782969th
15th time 15-14348907th	15th time 15-14348907th
16th time 16-43047057th	16th time 16-43047057th
17th time 17-128141161th	17th time 17-128141161th
18th time 18-368423483th	18th time 18-368423483th
19th time 19-1075270459th	19th time 19-1075270459th
20th time 20-3225811377th	20th time 20-3225811377th
21st time 21-9677434131th	21st time 21-9677434131th
22nd time 22-28022302393th	22nd time 22-28022302393th
23rd time 23-84066907179th	23rd time 23-84066907179th
24th time 24-252197721537th	24th time 24-252197721537th
25th time 25-756593164611th	25th time 25-756593164611th
26th time 26-2269779593833th	26th time 26-2269779593833th
27th time 27-6809338781509th	27th time 27-6809338781509th
28th time 28-20428016344527th	28th time 28-20428016344527th
29th time 29-61284049033581th	29th time 29-61284049033581th
30th time 30-183852147100743th	30th time 30-183852147100743th
31st time 31-551556441302229th	31st time 31-551556441302229th
32nd time 32-1654719323906887th	32nd time 32-1654719323906887th
33rd time 33-4964157971720061th	33rd time 33-4964157971720061th
34th time 34-14892473915160183th	34th time 34-14892473915160183th
35th time 35-44677421745480549th	35th time 35-44677421745480549th
36th time 36-133932265236441647th	36th time 36-133932265236441647th
37th time 37-391796795708324941th	37th time 37-391796795708324941th
38th time 38-1115310387124974823th	38th time 38-1115310387124974823th
39th time 39-3245931161374924469th	39th time 39-3245931161374924469th
40th time 40-9737793484124773407th	40th time 40-9737793484124773407th
41st time 41-28213380452374320221th	41st time 41-28213380452374320221th
42nd time 42-84640141357122960663th	42nd time 42-84640141357122960663th
43rd time 43-25392042407136881999th	43rd time 43-25392042407136881999th
44th time 44-76176127221410665997th	44th time 44-76176127221410665997th
45th time 45-228528381664231997991th	45th time 45-228528381664231997991th
46th time 46-685585144992695993973th	46th time 46-685585144992695993973th
47th time 47-2056755449978087981919th	47th time 47-2056755449978087981919th
48th time 48-6170266349934663945737th	48th time 48-6170266349934663945737th
49th time 49-18510798949803989837111th	49th time 49-18510798949803989837111th
50th time 50-5553239684941196971133th	50th time 50-5553239684941196971133th
51st time 51-16659719054823590913399th	51st time 51-16659719054823590913399th
52nd time 52-49979157146470772730197th	52nd time 52-49979157146470772730197th
53rd time 53-147937471439402318190591th	53rd time 53-147937471439402318190591th
54th time 54-443812414318206954571773th	54th time 54-443812414318206954571773th
55th time 55-1331437242954620836713319th	55th time 55-1331437242954620836713319th
56th time 56-399421172886386250814017th	56th time 56-399421172886386250814017th
57th time 57-119826351865915875244211th	57th time 57-119826351865915875244211th
58th time 58-359478055597747625732633th	58th time 58-359478055597747625732633th
59th time 59-107843416679324287719789th	59th time 59-107843416679324287719789th
60th time 60-323530250037972863159367th	60th time 60-323530250037972863159367th
61st time 61-970590750113978589478001th	61st time 61-970590750113978589478001th
62nd time 62-2911772250341935768434003th	62nd time 62-2911772250341935768434003th
63rd time 63-8735316750925807305302009th	63rd time 63-8735316750925807305302009th
64th time 64-26205950252777421915906027th	64th time 64-26205950252777421915906027th
65th time 65-78617850758332265747718081th	65th time 65-78617850758332265747718081th
66th time 66-235853552374966792243154443th	66th time 66-235853552374966792243154443th
67th time 67-707560657124980136672993329th	67th time 67-707560657124980136672993329th
68th time 68-212268197137494050002898987th	68th time 68-212268197137494050002898987th
69th time 69-636804591412482150008696961th	69th time 69-636804591412482150008696961th
70th time 70-1910413774237446450026089773th	70th time 70-1910413774237446450026089773th
71st time 71-5731241322671339350078266731th	71st time 71-5731241322671339350078266731th
72nd time 72-1719372368011303850134780003th	72nd time 72-1719372368011303850134780003th
73rd time 73-5158117084033911550204340009th	73rd time 73-5158117084033911550204340009th
74th time 74-1547435125209773465061320027th	74th time 74-1547435125209773465061320027th
75th time 75-4642305375629320395183960081th	75th time 75-4642305375629320395183960081th
76th time 76-13926916127387961185551776023th	76th time 76-13926916127387961185551776023th
77th time 77-4178074838216388355665332807th	77th time 77-4178074838216388355665332807th
78th time 78-12534224514649165066995984021th	78th time 78-12534224514649165066995984021th
79th time 79-37592673543947495100995972063th	79th time 79-37592673543947495100995972063th
80th time 80-11277802063184248530299991619th	80th time 80-11277802063184248530299991619th
81st time 81-33833406189552745590899974857th	81st time 81-33833406189552745590899974857th
82nd time 82-101500218568658236772699944571th	82nd time 82-101500218568658236772699944571th
83rd time 83-304500655705974708318099983613th	83rd time 83-304500655705974708318099983613th
84th time 84-91350196711792412495762999089th	84th time 84-91350196711792412495762999089th
85th time 85-274050589135377237472882997267th	85th time 85-274050589135377237472882997267th
86th time 86-812151767406131712418848996801th	86th time 86-812151767406131712418848996801th
87th time 87-2436455302218395177256648990403th	87th time 87-2436455302218395177256648990403th
88th time 88-7309365906655185311279988976129th	88th time 88-7309365906655185311279988976129th
89th time 89-21928097719965555933839966928387th	89th time 89-21928097719965555933839966928387th
90th time 90-657842931598966677915199607851th	90th time 90-657842931598966677915199607851th
91st time 91-197352879479689993374799762355th	91st time 91-197352879479689993374799762355th
92nd time 92-592058738439069980114399827065th	92nd time 92-592058738439069980114399827065th
93rd time 93-177617617531780984033299881019th	93rd time 93-177617617531780984033299881019th
94th time 94-532852852595342972099889943057th	94th time 94-532852852595342972099889943057th
95th time 95-1598558557786028966299869829071th	95th time 95-1598558557786028966299869829071th
96th time 96-479567567335808689889982978721th	96th time 96-479567567335808689889982978721th
97th time 97-143870270190742606966998873513th	97th time 97-143870270190742606966998873513th
98th time 98-431710810572227810880998660539th	98th time 98-431710810572227810880998660539th
99th time 99-1295132431716683432641998381617th	99th time 99-1295132431716683432641998381617th
100th time 100-388539729514984829792599815485th	100th time 100-388539729514984829792599815485th

The law of co. (division) is so simple that this table might easily be continued to any desired extent. The denominators of the fractions expressing the quantities of wine and water, are the successive powers of 3; and the numerators are found by dividing the denominators into 3 parts, differing from each other by unity.

We may remark that an odd number of portions fills the wine vessel, and consequently leaves the water vessel full; and as an even number of portions produces the opposite effect. It may also be remarked that the fields will never become equally mixed, when the denominators of the fractions, which express the parts of wine and water, at any time are always the same, while the numerators differ by a unit; so that the wine vessel will always contain an excess of wine, and the water vessel an excess of water. Notwithstanding they are never equal, still they approach more nearly to an equality, every time the operation is performed. B. POWELL.

The author will excuse us for omitting part of the table, as we have not the requisite fractions to carry it out. We regret, however, that we have published enough of it to show his idea. B. POWELL.

For the "Spirit."
 Answer to K's Problem No. 9.
 Base 6 or 8 feet; height 8 or 6 feet.

This problem was solved Algebraically by V. C. Knight, who gave a very nice solution, which we are obliged to omit, for reasons given last week. B. POWELL.

For the "Spirit."
 Answer to K's Geometrical Problem No. 8, in the "Spirit" of the 9th inst.—Seven Acres and 2 Rods. The problem will admit of a handsome Geometrical construction if required.

A SURVEYOR.
 A man residing in a city in the Northern Hemisphere, observed that his noonday sun was never vertical, but approached within 164 degrees of it. He also ascertained that his friend, living in Washington City, could see the sun rise 24 minutes before he could. In what city did he reside? S. BUGSUGGER.

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A RICH POLITICAL JOKE.

We have private authentic advices of an amusing but indicative mistake, of which Fremont was the victim. In New York city, last week, the free-soil candidate went on board the steamer "Orizaba" to say "adios" to some California bound friends. A gentleman who was with Fremont, said to Padre Vigil, the Nicaraguan minister, who was on board, "Allow me to introduce your excellency to the next President of the United States," (making a motion towards Fremont, but not calling him by name.) The Padre stepped forward, raised his hat, bowed and said, "I am very happy to see you, Mr. Buchanan." Enough said.

Who Goes Below.

A Potlender having hired his services to cut some ice, was asked if he could use a cross-cut saw?

"Be jakes, an' its meself what can do it," said Pat.

He was sent accordingly in company with his co-laborer, Jimmy McTouler, to cut some ice, and on reaching the center of the pond the saw was produced with both hands still in their place.

The verdant boy looking at the saw very coolly, put his hand in his pocket, and drawing therefrom a cent turned to his companion, and raising the cent called to his friend—

"Now, Jimmy, fair play—head or tail, who goes below?"

BARNESVILLE Classical Institute.

THE session of the above named Institution will commence on Monday, August 4th, 1856.

an English-FOURTEEN WEEKS. Every care is taken to afford to Young Ladies and Gentlemen the means of acquiring a thorough CLASSICAL and MATHEMATICAL education.

Special attention is given to those wishing to qualify themselves as teachers. Young gentlemen wishing to study

Surveying and Civil Engineering, will be believed, and here, superior opportunities as the proprietors have procured all the MATHEMATICAL INSTRUMENTS necessary for the full practice.

For particulars see Circular.

July 2, 1856. J. L. THOMPSON.

SELECT SCHOOL.

THE undersigned will teach a select school for the term of TWELVE WEEKS, commencing on Monday, the 28th day of July, 1856.

No pupils will be spared to render the school both profitable and pleasant to those who may favor it with their patronage.

Special attention will be paid to those desiring to prepare themselves for the business of teaching.

Common Branches, and Composition and Declaration. Algebra, Geometry, Trigonometry, Analysis of the English Language, and History. 5 00

Higher Algebra, Geometry, Trigonometry, and Astronomy. 6 00

N. B.—Application should be made before the commencement of the term.

WILLIAM WHEELER.

P. S.—Good boarding can be obtained in the town, at \$1.75 per week.

Woodsfield, May 28, 1856.—Sm.

THOMAS HUGHES, Fashionable Merchant Tailor, and Gentleman's Furnishing Establishment.

No. 25, Cor. Main & Water Sts. WHEELING, VA.

Gentlemen of every description to order in the latest & most fashionable styles and materials to fit or to make.

July 2, 1856.

COVERLET AND CARPET WEAVING.

THE undersigned is engaged in weaving COV. 1. ENKETS and CARPETS of every style and material.

Be has two looms, one of which weaves two different figures, and the other eight, as follows: Philadelphia, Beauty, Bellville, Wreath, Beauty of the West, Lady's Fancy, Gentleman's Fancy, Highway, Bloom, Greenberry, Vine, Farmers Choice, Enterprise, and North Star.

The last eight are woven with a seam, and the first two without seams.

Business Cards.

H. H. WIRE. HORACE HOLLAND. Wire & Holland. ATTORNEYS AT LAW. Office in the Holland House, Woodsfield, Monroe County, Ohio.

EDWARD ARCHBOLD. WM. F. RICHARDSON. Archbold & Richardson, Attorneys at Law, Woodsfield, Monroe Co., Ohio.

JOHN S. WAY, Attorney at Law, Woodsfield, Monroe Co., Ohio. Office two doors south of Probate